



## SEQUENCE LISTING

<110> BELFORT, MARLENE  
BELFORT, GEORGES  
DERBYSHIRE, VICKY  
WOOD, DAVID  
WU, WEI

<120> GENETIC SYSTEM AND SELF-CLEAVING INTEINS DERIVED  
THEREFROM, BIOSEPARATIONS AND PROTEIN PURIFICATION  
EMPLOYING SAME, AND METHODS FOR DETERMINING CRITICAL,  
GENERALIZABLE AMINO ACID RESIDUES FOR VARYING

<130> 454311-2201.1

<140> 09/641,808  
<141> 2000-08-17

<150> 60/149,257  
<151> 1999-08-17

<160> 26

<170> PatentIn Ver. 3.3

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peptide

<400> 1  
Cys Gly Glu Gln Pro Thr Gly  
1 5

<210> 2  
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peptide

<400> 2  
Ser Ile Glu Gln Asp  
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<400> 3  
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<210> 4  
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<400> 4  
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<210> 5  
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<213> Foot-and-mouth disease virus

<400> 5  
Leu Leu Asn Phe Asp Leu Leu Lys Leu Ala Gly Asp Val Glu Ser Asn  
1 5 10 15

Pro Gly Pro

<210> 6  
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polynucleotide sequernce

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<210> 8  
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<213> Foot-and-mouth disease virus

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1 5 10 15  
Pro Gly Pro

<210> 9  
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<212> PRT  
<213> *Saccharomyces cerevisiae*

<400> 9  
Phe Thr Cys Asn Ala Thr His Glu Leu  
1 5

<210> 10  
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<212> PRT  
<213> *Mycobacterium leprae*

<400> 10  
Phe Ala Ala Thr Pro Asn His Leu Ile  
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<210> 11  
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<213> *Mycobacterium xenopi*

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<210> 12  
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<212> PRT  
<213> *Pyrococcus* sp.

<400> 12  
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<210> 13  
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<213> *Porphyra purpurea*

<400> 13  
Leu Glu Leu Thr Ser Asn His Lys Ile  
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<210> 14  
<211> 9  
<212> PRT  
<213> *Mycobacterium tuberculosis*

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<210> 15  
<211> 9  
<212> PRT  
<213> *Caenorhabditis elegans*

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<210> 16  
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<212> PRT  
<213> *Drosophila melanogaster*

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<210> 17  
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<213> *Xenopus laevis*

<400> 17  
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<210> 18  
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<213> *Saccharomyces cerevisiae*

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Leu Ala Asn

<210> 19  
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<212> PRT  
<213> *Mycobacterium leprae*

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<210> 20  
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<213> *Mycobacterium xenopi*

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Ile Thr Asn

<210> 21  
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Ala Gly

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<212> PRT  
<213> *Porphyra purpurea*

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Ala Asn

<210> 23  
<211> 18  
<212> PRT  
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Ala Glu

<210> 24  
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<212> PRT  
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1 5 10 15

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<212> PRT  
<213> *Drosophila melanogaster*

<400> 25  
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<210> 26  
<211> 16  
<212> PRT  
<213> *Xenopus laevis*

<400> 26  
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1 5 10 15